

August 06, 2015

MEMORANDUM FOR: Distribution Email

FROM: Christine Caruso Magee  
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SUBJECT: Scheduled Operational Changes and Upgrades for  
CPC, OPC, and WPC

The following accelerated items were implemented this past week:

None

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The following will be implemented the week of August 10, 2015:

RFC #397 – Add documentation to the LRF POE processing and retain several output files to aid in diagnostics in the event of a failure. To be implemented on August 10 at 1200Z. (CPC)

RFC #398 – The Global RTOFS Antarctic Images script is being updated to add OPC/OAB's email address to the recipients list, for additional monitoring notification. To be implemented on August 10 at 1130Z. (OPC)

RFC #399 – Scripts that were turned on for the FFaIR 2015 experiment in July 2015 no longer need to be run and will be turned off. The cron table will be modified to comment out the archiving and verification scripts to turn them off. To be implemented on August 10 at 1300Z. (WPC)

RFC #400 – Edit the 'get\_ecmwfmos.csh' script to use the ECMWF MOS files that are now available on the Compute Farm instead of getting them off the web. To be implemented on August 11 at 1200Z. (WPC)

RFC #401 – Update the Icing Rate grid generation IDP processing to also produce GRIB2 grid files and upload these files to the web. Terminate the Sawada Icing Rate IDP processing since the Sawada algorithm produces inferior forecast guidance. Update the directory structure, web pages, and web monitor on rzdm to accommodate these changes. To be implemented on August 11 at 1430Z. (OPC)

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The following CPC OPC WPC RFC(s) are in progress:

RFC #394 – Making changes to support the NMFS Winter Cruise aboard the Research Vessel/Ice Breaker (RVIB) Nathaniel Palmer off Antarctica. Modify the image creation script to include 24 hours. Modify the email table to include the requested products and recipients. Activate 'auto\_antarctica.pl' and 'GRtofs\_AntarcticImages.csh' scripts in cron on IDP. Disable the same crons at the end of the cruise (1 Sept 2015). Implemented on July 30 at 1130Z and will be backed out on September 1. (OPC)

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The following NCO RFCs to be implemented the week of August 10, 2015 may affect CPC, OPC, and/or WPC:

RFC #1167 - Update the Obsproc codes to create new data tanks b012/xx160 (GOES Imager effective cloud amount) and b005/xx090 (NPP VIIRS IR satellite winds); update "satwnd" dump files so they now contain GOES IR/SW, POES AVHRR/IR/LW, and POES VIIRS/IR/LW winds; correct the land/sea mask for some coastal marine stations so that stations currently considered by the models as being on land are now over water; create new dump files for NAM, RTMA, and URMA; and create new "nexrad" dump files for use in future HRRR versions. Was to be implemented on August 4 at 1240Z; delayed by Critical Weather Day status to August 11 at 1240Z.

RFC #1168 - AHPS v10.1 - Update the Advanced Hydrologic Prediction Service (AHPS) which is hosted at NIDS/IDG. The update includes a new QPE interface and new Flood Inundation Mapping interface, along with other changes which will improve the user experience due to a move to dynamic ESRI maps. Was to be implemented on August 4 at 1300Z; delayed by Critical Weather Day status to August 11 at 1300Z.

RFC #1183 – NDFD r560 - SPC Convective outlook categories have been updated and do not match operational NDFD categories, causing incorrect data to display on graphical forecast page. NDFD is being updated to match the SPC convective outlook categories. To be implemented on August 10 at 1730Z.

RFC #1189 – WCOSS Dataflow v1.63.8, NCOSRV Dataflow v2.6.21 - The DBNet software on WCOSS and NCOSRV is being modified to begin sending datasets from the parallel Global Ensemble Forecast System (GEFS) for evaluation. The official 30-day evaluation will start on or around August 14. This RFC is to be implemented on August 11 at 1200Z.

RFC #1192 – BUFRLIB v11.0.0 – Update to bufrlib which includes 3 new builds to allow certain bufrlib array sizes to be specified by the application program and the corresponding arrays to be dynamically allocated at run time. The debufr

utility is being updated to include some additional sanity checks and to decode Section 1 tank receipt time info when available from NCEP BUFR messages. It is also being linked to bufrlib v11.0.0. Finally, other libraries will be copied to Phase 2 (/nwprod2/lib) and their directory structures and module files will be updated accordingly. To be implemented on August 11 at 1230Z.

RFC #1194 - Deploy CAPTCHA enabled web comment forms for main NCEP, NCO, CPC, EMC, OPC, and WPC web sites. Allowing 4 days, as each Center has site specific configurations. Implementation to begin on August 11 at 1400Z and be completed by 2000Z on August 14.

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The following NCO RFC(s) are in progress and may affect the local Centers:

RFC #1096 – WCOSS: SP5 Software Upgrade v5.0 - IBM will apply the Service Pack 5 software upgrade to the WCOSS systems. Included in this upgrade are changes to RHEL, GPFS, IBM PE, IBM xCAT and several other components. IBM software support has released its latest HPC software stack service pack and is urging all x86\_64 based Infiniband HPC Cluster customers to apply it to maximize product support, and address some known system issues. Tide work is still ongoing. Gyre will be completed in August. There will be a 2-day outage on Gyre when the work is being done.

RFC #1156 – WCOSS: TO4 network tie-in – Connect the Cray systems' Ethernet and Infiniband networks to WCOSS Phase 1 and Phase 2 network infrastructure. Work was completed on the Reston, VA systems the week of Aug. 3. The tentative date for this work in Orlando is August 28 and will include a 1-day outage of WCOSS (Gyre) that day.

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The following NCO RFC which was previously approved was implemented this past week:

RFC #1152 - WCOSS Dataflow v1.63.5, NCODF Dataflow v2.6.1, NCOSRV Dataflow v2.6.15 - The DBNet software on WCOSS and Ncosrv will be configured to send the parallel GMOS (Gridded Model Output Statistics) and GLAMP (Gridded Localized Aviation MOS Program) models to users for evaluation. Implemented on August 5 at 1200Z.

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Please note that security-related RFCs are never listed in the RFC memo.

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---- OPERATIONAL ANNOUNCEMENTS ----

1. The CPC/OPC/WPC Configuration Management documents are available at <https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/>.

Please review these documents if you have questions prior to submitting changes for CPC/OPC/WPC configurable items.